

State of Hawaii  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
Engineering Division  
Honolulu, Hawaii 96813

May 22, 2009

Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii

**Request to Hire a Consultant for  
National Flood Insurance Program (NFIP)  
Development of a Mobile Device Application for Site Inspections**

The Hawaii National Flood Insurance Program (NFIP) within the Engineering Division desires to retain the services of a consultant to create a mobile device application for its Special Flood Hazard Area (SFHA) site inspections. This service requires technical expertise in developing an application for a mobile device using Windows platform, Environmental Systems Research Institute's (ESRI) ArcPad 8.0 and ArcGIS Server 9.3 software, C# programming language, and Microsoft SQL Server 2008. The application must provide for, among others, data synchronization between the mobile and the backend databases (on or off the field), must have reporting capabilities over an Intranet website, and allow overlaying of FEMA's Digital Flood Insurance Rate Map, county parcel layer, and/or digital orthography over a street layer on the mobile device for site navigation. In addition, the services will include on-going maintenance of the mobile application, Hawaii Flood Hazard Assessment Tool, and the Hawaii NFIP Website.

The Hawaii National Flood Insurance Program (NFIP) within the Department of Land and Natural Resources Engineering Division has been designated as the State Coordinating Agency responsible for assisting the coordination of the program between the federal and county agencies in Hawaii. Development in SFHAs as identified on Flood Insurance Rate Maps (FIRMs) is regulated by the NFIP. To carry out this regulatory function, Hawaii NFIP conducts periodic site inspections. The site inspection process is a means of ensuring that the counties adhere to NFIP floodplain management and regulations. The mobile application would automate the collection and capture of data during site inspections.

Federal funds for this project are available through FEMA's Map Modernization Management Support Grants (EMF-2008-GR-0807). No State matching funds are required for this project.

**RECOMMENDATION:**

1. That the Board of Land and Natural Resources authorize the hiring of a consultant for the project indicated and authorize the Chairperson to sign the necessary documents pertaining to the project, subject to review and approval by the Attorney General and Governor's approval.
2. That the Board of Land and Natural Resources authorize the Chairperson, subject to review and approval by the Attorney General, to enter into supplemental contracts to address unforeseen conditions and sign the necessary documents to implement the additional work with the consultant.

Respectfully submitted,



ERIC T. HIRANO  
Chief Engineer

APPROVED FOR SUBMITTAL:



LAURA H. THIELEN, Chairperson  
Board of Land and Natural Resources

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